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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/917,761	07/31/2001	Shigeru Hidesawa	010965	2817

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EXAMINER

DUONG, HUNG V

ART UNIT	PAPER NUMBER
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2835

DATE MAILED: 06/14/2002

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/917,761

Applicant(s)
Hidesawa

Examiner
Hung Duong

Art Unit
2835



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 3 6) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-6, 8-12, 14-17, 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Yugen Gongsi (JP 3057021).

Regarding claims 1, 3-6, 8-12, 14-17, 19 discloses an electronic apparatus comprising an apparatus body 7, and an electric part 30 detachably attached to the apparatus body 7, wherein the electric part 30 is attached to an outer wall of the apparatus body 7, and the electric part 30 is provided with terminals for accomplishing electric connection of the electric part 30 with the apparatus body 7 and a heat radiating structure 2 for radiating heat generated in the apparatus body 7. The heat radiating structure 2 comprises a heat radiating member for radiating heat generated in the apparatus body 7 via the electric part. The electronic apparatus includes a heat radiating member 2, and the heat radiating member 2 of the electric part is connected to the heat radiating member of the electronic apparatus when the electric part is attached. The heat radiating

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structure includes a fan 4 for radiating heat generated in the apparatus body 7 via the electric part. The apparatus body 7 and the electric part 30 include mechanical connection means 3 for mechanically connecting the electric part 30 to the apparatus body 7. The electric part 30 is a connector box to which another part can be further attached. The electric part 30 extends long along a rear portion of the apparatus body 7. The length of the electric part 30 is not less than half of the length of the rear portion of the apparatus body 7. The electronic apparatus is a notebook type information processing apparatus having a portion including a keyboard and a portion attached to the portion including the keyboard and including a display.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yugen Gongsi (JP 3057021) as applied to claims 2, 13 above, and further in view of Yoshiaki et al. (JP 7-245849).

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Regarding claims 2, 13, Yugen Gongsi discloses all the subject matter of the claimed inventions except for the heat radiating structure comprises a heat radiating member for radiating heat generated in the apparatus body via the electric part and that the heat radiating structure is a protruding and recessing wall structure allowing a passage of air between an outer surface of the electric part and an outer surface of the apparatus body. However, Yoshiaki et al taught a technique for allowing air to pass through an undulating structure provided between both faces of radiating parts keep in contact with each other. Therefore, it would be obvious to one of ordinary skill to modify a heat radiating member for radiating heat generated in the apparatus body via the electric part and that the heat radiating structure is a protruding and recessing wall structure allowing a passage of air between an outer surface of the electric part and an outer surface of the apparatus body of Yoshiaki et al into Gongsi's radiating member as applicant's invention in order to provide efficiently radiated within electronic part.

5. Claims 7, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yugen Gongsi (JP 3057021) as applied to claims 7, 18 above, and further in view of Akira et al. (JP 10-116133).

Regarding claims 7, 18, Yugen Gongsi discloses all the subject matter of the claimed inventions except for the electric part comprises a battery pack. However, Akira et al taught a technique for interchangeable mounting and dismounting a connector box and a battery pack on a lateral face at the rear of notebook computer. Therefore, it would be obvious to one of ordinary

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skill to include the electric part with a battery pack of Akira et al into Gongsu's electric part as applicant's invention in order to provide independent power within electronic part.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bhatia (US Pat. 6,111,748) teaches flat fan heat exchanger and use thereof in a computing device.

McMahan et al. (US Pat. 6,359,780) teach apparatus and method for cooling a heat generating component in a computer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Duong whose telephone number is (703) 308-4889. The examiner can normally be reached on M-F from 8:30 to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on (703) 308-4815. The fax phone number for this Group is (703)308- 7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-0956 .

HVD6/10/02.


DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800